

**MANDREL FOR ELECTROFORMATION
OF AN ORIFICE PLATE**

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ABSTRACT

A method of fabricating a mandrel for electroformation of an orifice plate. An array of mask elements may be created adjacent a substrate. Surface regions of the substrate disposed generally between the mask elements may be removed, to create a base having a base surface and a plurality of pillars extending from the base surface according to the array of mask elements. Each pillar may have a perimeter defined by an orthogonal projection of one of the mask elements onto the substrate. An electrical-conduction enhancer may be deposited adjacent the base surface and terminating at least substantially at the perimeter, to create a conductive layer to support growth of the orifice plate.